

Solubility study of U.V. absorber in slip film solvent

120 g ZPA
67 g Hexane
57 g Naphthalene
5 g of each the MS

BAF MS 40 0.15 ✓ 0.25 ✓ + No solubility in film

DS 44 0.15 x Total solubility

Diphenyl 44 dimethylbenzoylphosphine oxide x

① slip film solvent 20 g 0.15 MS 40

② slip 10 g 0.25 MS 40 + 0.15 carbon black
did not change
to much on color

U.V. Intensity 1.5 mW/cm²
wavelength 1.2 mW/cm²

1. slip film 0.7 mW/cm²
0.6 mW/cm²
2 layers 0.35 mW/cm²

2 0.45 mW/cm²

3 0.1 g MS 40, 10 g slip film 0.15 mW/cm²
0.5 mW/cm²

Try increase film thickness + conc. of MS 40 + carbon black. Brighter
measures